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RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/787,328B

DATE: 11/06/2002

TIME: 14:43:42

Input Set : A:\Sequence Listing.txt

Output Set: N:\CRF4\11062002\I787328B.raw

AND

3 <110> APPLICANT: Yu, Long
 4 Zhang, Honglai
 5 Fu, Qiang
 6 Zhao, Yong
 7 Tu, Qiang
 9 <120> TITLE OF INVENTION: NEW HUMAN HEPATOMA-DERIVED GROWTH FACTOR ENCODING SEQUENCE

10 POLYPEPTIDE ENCODED BY SUCH DNA SEQUENCE AND PRODUCING METHOD THEREOF

12 <130> FILE REFERENCE: 9548.50USWO

14 <140> CURRENT APPLICATION NUMBER: US 09/787,328B

15 <141> CURRENT FILING DATE: 2001-03-16

17 <150> PRIOR APPLICATION NUMBER: PCT/CN99/00139

18 <151> PRIOR FILING DATE: 1999-09-06

20 <150> PRIOR APPLICATION NUMBER: CN 98119758.2

21 <151> PRIOR FILING DATE: 1998-09-22

23 <160> NUMBER OF SEQ ID NOS: 10

25 <170> SOFTWARE: PatentIn version 3.1

27 <210> SEQ ID NO: 1

28 <211> LENGTH: 23

29 <212> TYPE: DNA

30 <213> ORGANISM: Artificial Sequence

32 <220> FEATURE:

33 <223> OTHER INFORMATION: Synthetic primer for polymerase chain reaction (PCR)

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39 <210> SEQ ID NO: 2

40 <211> LENGTH: 26

41 <212> TYPE: DNA

42 <213> ORGANISM: Artificial Sequence

44 <220> FEATURE:

45 <223> OTHER INFORMATION: Synthetic primer for polymerase chain reaction (PCR)

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51 <210> SEQ ID NO: 3

52 <211> LENGTH: 1024

53 <212> TYPE: DNA

54 <213> ORGANISM: Homo sapiens

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59 gggcgcgctt cccggcatct tcgcgcgac caaggactac caggaaggg agcggtgg 120

61 atggcgcgtc cgcggccccg cgagtacaaa gcggcgacac tggcttcgc caagatgaag 180

63 ggctaccgc actggccggc ccgattgat gaactcccag agggcgctgt gaagcctcca 240

65 gcaacaagt atcctatctt cttttttggc acccatgaaa ctgcatttct aggtcccaaa 300

67 gacctttttc catataagga gtacaaagac aagtttggaa agtcaaaca acggaaagga 360

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69 ttttaacgaag gattgtggga aatagaaaaat aacccaggag taaagtttac tggctaccag      420
71 gcaattcagc aacagagctc ttcagaaaact gagggagaag gtggaaatac tgcagatgca      480
73 agcagtgagg aagaaggtga tagagtagaa gaagatggaa aaggcaaaaag aaagaatgaa      540
75 aaagcaggct caaaacggaa aaagtcatat acttcaaaga aatcctctaa acagtcccgg      600
77 aaatctccag gagatgaaga tgacaaaagac tgcaaagaag aggaaaacaa aagcagctct      660
79 gaggggtggag atgcggggcaa cgacacaaga aacacaactt cagacttgca gaaaaccagt      720
81 gaagggacct aactaccata atgaatgctg catattaaga gaaaccacaa gaaggttata      780
83 tgtttggttg tctaataattc ttggatttga tatgaaccaa cacatagtcc ttgttgatcat      840
85 tgacagaacc ccagtttcta tgtacattat tcatattcct ctctgttggtg ttctggggggg      900
87 aaaagacatt ttagcctttt ttaaaaagtta ctgatttaat ttcattgttat ttggttgcat      960
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96 <212> TYPE: PRT

97 <213> ORGANISM: Homo sapiens

99 <400> SEQUENCE: 4

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106                      20                      25                      30
109 Pro Glu Gly Ala Val Lys Pro Pro Ala Asn Lys Tyr Pro Ile Phe Phe
110                      35                      40                      45
113 Phe Gly Thr His Glu Thr Ala Phe Leu Gly Pro Lys Asp Leu Phe Pro
114                      50                      55                      60
117 Tyr Lys Glu Tyr Lys Asp Lys Phe Gly Lys Ser Asn Lys Arg Lys Gly
118 65                      70                      75                      80
121 Phe Asn Glu Gly Leu Trp Glu Ile Glu Asn Asn Pro Gly Val Lys Phe
122                      85                      90                      95
125 Thr Gly Tyr Gln Ala Ile Gln Gln Gln Ser Ser Ser Glu Thr Glu Gly
126                      100                     105                     110
129 Glu Gly Gly Asn Thr Ala Asp Ala Ser Ser Glu Glu Glu Gly Asp Arg
130                      115                     120                     125
133 Val Glu Glu Asp Gly Lys Gly Lys Arg Lys Asn Glu Lys Ala Gly Ser
134                      130                     135                     140
137 Lys Arg Lys Lys Ser Tyr Thr Ser Lys Lys Ser Ser Lys Gln Ser Arg
138 145                      150                     155                     160
141 Lys Ser Pro Gly Asp Glu Asp Asp Lys Asp Cys Lys Glu Glu Glu Asn
142                      165                     170                     175
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153 <210> SEQ ID NO: 5

154 <211> LENGTH: 29

155 <212> TYPE: DNA

156 <213> ORGANISM: Artificial Sequence

158 <220> FEATURE:

159 <223> OTHER INFORMATION: Synthetic primer for polymerase chain reaction (PCR)

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167 <212> TYPE: DNA
168 <213> ORGANISM: Artificial Sequence
170 <220> FEATURE:
171 <223> OTHER INFORMATION: Synthetic primer for polymerase chain reaction (PCR)
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177 <210> SEQ ID NO: 7
178 <211> LENGTH: 29
179 <212> TYPE: DNA
180 <213> ORGANISM: Artificial Sequence
182 <220> FEATURE:
183 <223> OTHER INFORMATION: Synthetic primer for polymerase chain reaction (PCR)
185 <400> SEQUENCE: 7
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189 <210> SEQ ID NO: 8
190 <211> LENGTH: 29
191 <212> TYPE: DNA
192 <213> ORGANISM: Artificial Sequence
194 <220> FEATURE:
195 <223> OTHER INFORMATION: Synthetic primer for polymerase chain reaction (PCR)
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202 <211> LENGTH: 1563
203 <212> TYPE: DNA
204 <213> ORGANISM: Mus musculus
206 <400> SEQUENCE: 9
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209 catgtcgcgga tccaaccggc agaaagagta caagtgcgga gacctggtgt ttgcgaagat 120
211 gaaaggatac ccacactggc cggcccggtat tgatgagatg cctgaggctg cagtgaagtc 180
213 aacagccaac aaataccaag tctttttttt tgggacccat gagacggcat tctggggccc 240
215 caaagacctc ttcccttatg aggaatccaa ggagaagttt ggcaagccca acaagaggaa 300
217 aggggttcagc gaggggctgt gggagatcga gaacaacctt acagtcaagg cctctggcta 360
219 ccagtcctcc cagaaaaaga gttgtgcggc agagcccagag gtggagcccg aagcccatga 420
221 ggggtgacggt gataagaagg gcagtgacga gggcagcagc gacgaagaag ggaaactggt 480
223 gatcgatgaa ccagccaagg agaagaacga aaagggcacg ctgaagagga gagcagggga 540
225 tgtgttgagg gactccccta aacgtcccaa ggagtcagga gaccatgagg aggaggacaa 600
227 ggagatagct gccttggagg gtgagaggca cctgcctgta gaggtggaga agaacagcac 660
229 cccctctgag ccagactctg gccagggacc tctgcagag gaagaagagg gagaggagaa 720
231 ggctgccaaag gaagaggctg aagccccagg cgtcagagat catgagagcc tgtagccacc 780
233 aatgtttcaa gaggagcccc tgccccgttc ctgctgctgt ctgggtgcta ctggggaaac 840
235 tggccatggc ctgcaaaact ggaacccttt cccaccctat ttaccctact cctcactca 900
237 ctctctctc taagcccact cctggagagt gtcttggtccc tcacctccag ctcccttcc 960
239 atatacacc tgtgccccag gatgagatga ggcctttgta tctctttaca cttgtttccc 1020
241 agggtttctg ctgggggtcta ggctgctgtt tccacctctt gacacctctg cctgctgca 1080

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243 ggcattctag acctttgggg tggatagtgg gcaggagtgg aggtgaaaga atataaagga 1140
245 gtgtgggttc atggatggca tcgtctacct gagctcctgt ctccagcccc cacacttatt 1200
247 ttcccatctg cctacattca agaaacagga cactgtggga gagaggctac catccatcca 1260
249 taaatccttg ttgatttttg ggaacactta tccccctgac cccagggttc aaggaattgt 1320
251 agtttaacat ctagactttg gagtttccaa gtttgggcct aggacctgga gggagctaag 1380
253 agctgaagaa tcaactgatt tgcattgagg aaatgtctct ttagatctca gggcagaaat 1440
255 gataacctgg ggagacctgc tgccttcac tacttcccaa tgcttgaggc cagcctgtag 1500
257 tcagatatatt caccagaca taaaggaaaa gaccattttt tttaggaaat gtttttaata 1560
259 aaa 1563
262 <210> SEQ ID NO: 10
263 <211> LENGTH: 237
264 <212> TYPE: PRT
265 <213> ORGANISM: Mus musculus
267 <400> SEQUENCE: 10
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273 Phe Ala Lys Met Lys Gly Tyr Pro His Trp Pro Ala Arg Ile Asp Glu
274 20 25 30
277 Met Pro Glu Ala Ala Val Lys Ser Thr Ala Asn Lys Tyr Gln Val Phe
278 35 40 45
281 Phe Phe Gly Thr His Glu Thr Ala Phe Leu Gly Pro Lys Asp Leu Phe
282 50 55 60
285 Pro Tyr Glu Glu Ser Lys Glu Lys Phe Gly Lys Pro Asn Lys Arg Lys
286 65 70 75 80
289 Gly Phe Ser Glu Gly Leu Trp Glu Ile Glu Asn Asn Pro Thr Val Lys
290 85 90 95
293 Ala Ser Gly Tyr Gln Ser Ser Gln Lys Lys Ser Cys Ala Ala Glu Pro
294 100 105 110
297 Glu Val Glu Pro Glu Ala His Glu Gly Asp Gly Asp Lys Lys Gly Ser
298 115 120 125
301 Ala Glu Gly Ser Ser Asp Glu Glu Gly Lys Leu Val Ile Asp Glu Pro
302 130 135 140
305 Ala Lys Glu Lys Asn Glu Lys Gly Thr Leu Lys Arg Arg Ala Gly Asp
306 145 150 155 160
309 Val Leu Glu Asp Ser Pro Lys Arg Pro Lys Glu Ser Gly Asp His Glu
310 165 170 175
313 Glu Glu Asp Lys Glu Ile Ala Ala Leu Glu Gly Glu Arg His Leu Pro
314 180 185 190
317 Val Glu Val Glu Lys Asn Ser Thr Pro Ser Glu Pro Asp Ser Gly Gln
318 195 200 205
321 Gly Pro Pro Ala Glu Glu Glu Gly Glu Glu Glu Ala Ala Lys Glu
322 210 215 220
325 Glu Ala Glu Ala Pro Gly Val Arg Asp His Glu Ser Leu
326 225 230 235

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VERIFICATION SUMMARY

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